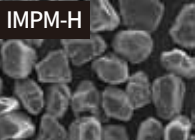
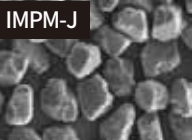
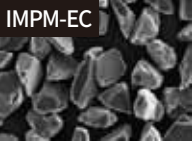
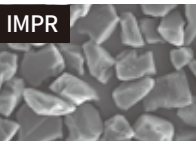
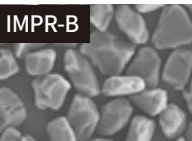
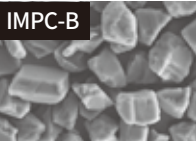


IMP

ILJIN Micron Powder

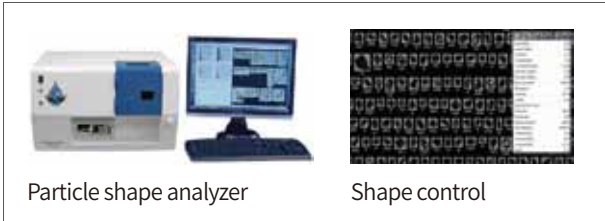
	Grade	Bond/App.	Property	Image	
Diamond	IMPM	Metal Bond	· High metal bonding properties · Superior toughness and impact strength · High wear resistance · High material removal rate superior surface quality (finish) · Shorter process times		
					
	IMPR	Resin Bond	· Low toughness and impact strength · Superior friable shape · Continuous cutting edge · Superior surface quality (finish) · Shorter process times		
cBN	IMPCA	Ferrous metal application	· Color : Amber  · Regular shape uniform & constant size distribution · Superior surface quality (finish) · Shorter process times		
	IMPCB	Ferrous metal application	· Color : Black  · Regular shape uniform & constant size distribution · Superior surface quality (finish) · Shorter process times		

Range

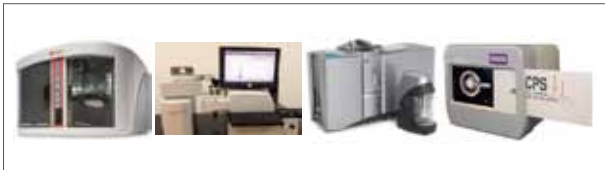
Micron size Range(μm)	Approximate Mesh Size Equivalent	Diamond		cBN	
		IMPM	IMPR	IMPCA (Amber)	IMPCB (Black)
40-60	#270	V	V	V	V
40-50	#325	V	V	V	V
35-45	#400	V	V	V	V
30-40	#500	V	V	V	V
22-36	#700	V	V	V	V
20-30	#800	V	V	V	V
15-25	#1000	V	V	V	V
10-20	#1200	V	V	V	V
8-12	#1800	V	V	V	V
6-12	#2000	V	V	V	V
5-10	#2600	V	V	V	V
4-8	#2800	V	V	V	V
4-6	#3800	V	V	V	V
2-6	#4500	V	V	V	V
2-5	#5000	V	V	V	V
2-4	#5500	V	V	V	V
1-3	#7300	V	V	V	V
0-3	#9300	V	V	V	V
1-2	#11000	V	V	V	V
0-2	#13000	V	V	V	V
0-1	#18000	V	V	V	V
0-0.5	#30000	V			
0-0.25	#60000	V			

Quality Control

Shape & Particle size control



PSD analyzer



ILJIN Diamond

Diamond & cBN Powders for Grinding Wheel

Sales Network

KOREA	ILJIN Head Office	TEL +82-2-3777-8413	FAX +82-2-3777-8491	E-mail dia@iljin.co.kr
	6F, 15, Magokjungang 14-ro, Gangseo-gu, Seoul, 07789, Korea			
	Eumsung Plant	TEL +82-43-879-4752	FAX +82-43-879-4888	
	614-2, Oryu-Ri, Daeso-Myun, Eumsung-Gun, Chungcheongbuk-Do, 27659, Korea			
	Ansan Plant	TEL +82-31-689-5100	FAX +82-31-495-5659	
	690-11, Seonggok-dong, Danwon-gu, Ansan-si, Gyeonggi-do, Korea			
VIETNAM	Ha nam Plant / ILJIN DIAMOND VINA	TEL +912-065-473	E-mail dia@iljin.co.kr	
	Lot Cn03, Dong Van IV Industrial Park, Dai Cuong Commune, Kim Bang District, Hanam Province,Vietnam			
EUROPE	ILJIN EUROPE GmbH.	TEL +49-6196-88759-0	FAX +49-6196-88759-20	E-mail diaeu@iljin.co.kr
	Koelner Strasse 3, 65760 Eschborn, Germany			
JAPAN	ILJIN JAPAN Co., Ltd.	TEL +81-3-5405-2820	FAX +81-3-5405-3577	E-mail diajp@iljin.co.kr
	Hamamatsucho General B/L 7F, 2-2-15, Hamamatsu-cho, Minato-ku, Tokyo, 105-0013, Japan			
AMERICAS	ILJIN USA Inc.	TEL +1-281-448-5111	FAX +1-281-448-5114	E-mail diausa@iljin.co.kr
	15995 N. Barkers Landing Rd. #310, Houston TX 77079, USA			
CHINA	ILJIN CHINA Co., Ltd.	TEL +86-21-61268711	FAX +86-21-61268713	E-mail diachina@iljin.co.kr
	3F-C, BaoNa B/D(LP Tower), NC.25, Xianfeng ST., Minhang District, Shanghai, 201103, China			

ILJIN Diamond www.ILJINDIAMOND.com

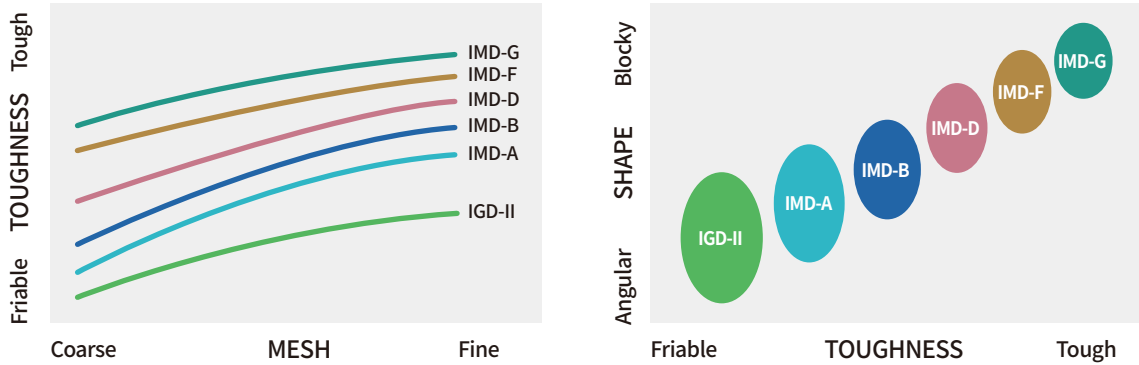


IMD

ILJIN Metal Bond Diamond

Grade	Mesh Size	Property & Application	Image
IMD-G	60/80 ~ 400/500	· Sawing of granite & ceramic tiles · Rough polishing of granite · Reinforced glass edge · Ferrite motor core	
IMD-F	60/80 ~ 400/500	· Sawing of granite & ceramic tiles · Rough polishing of granite · Reinforced glass edge · Ferrite motor core	
IMD-D	60/80 ~ 400/500	· Core drill of glass · Crystal & glass decorating groove · Silicon nitride · OD grinding · Middle stage grinding of crystal & granite	
IMD-B	60/80 ~ 400/500	· Glass edge-normal, TFT-LCD · Moto glass edge · Cut-off wheel for crystal or glass · Final polishing of granite · CMP pad conditioner	
IMD-A	60/80 ~ 400/500	· Fired tungsten carbide · Dental burrs · Beveling of glass and mirror · Cut-off wheel for glass & quartz · Ferrite grinding	
IGD-II	60/80 ~ 400/500	· Electroplated tools · Grinding of WC · Polishing of ceramic tiles, stones	
IMD-T	80/100 ~ 100/120	· Semiconductor CMP Pad Conditioner · Uniform Shape (Triangle) · High Toughness · Wafer Macro Scratch, Defect Decrease	

Toughness & Shape



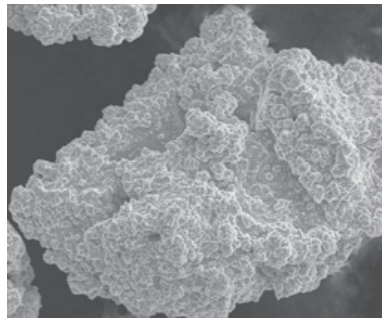
Ti, Ni, TN, Cr coating available upon request

IRD

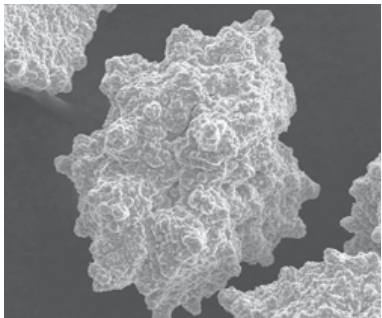
ILJIN Resin & Vitrified Bond Diamond

Grade	Mesh Size	Property & Application	Image
IRD-H	60/80 ~ 400/500	· Most tough grade · Combined tungsten carbide and steel	
IRD-III	60/80 ~ 400/500	· Slightly tougher than IRD-II · Wide application range	
IRD-II	60/80 ~ 400/500	· Standard grade · Wide application range	
IRD-F	60/80 ~ 400/500	· Very friable diamond · High material removal rates, excellent surface finish · Cermet, Ceramic & WC flute grinding	
IRD-S	60/80 ~ 400/500	· The most friable diamond · micro-fracturing properties and angular particle shape · Cermet, Ceramic & WC flute grinding	

Ni coating

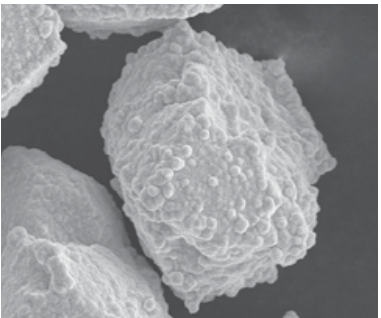


N56, N30(Cluster Type)
Ni coating : 30~60wt%



NS56(Spiky Type)
NS Coating : 56~60wt%

Cu coating



C50
Cu coating : 50wt%

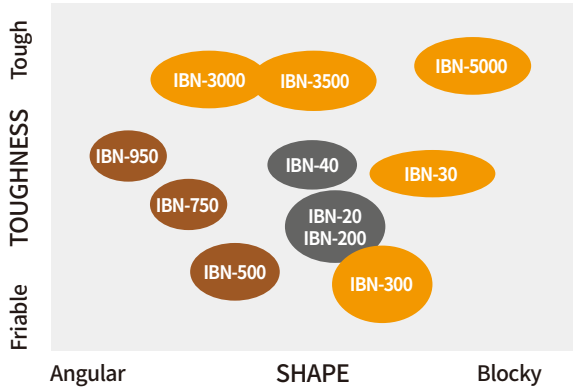
IBN

ILJIN Cubic Boron Nitride

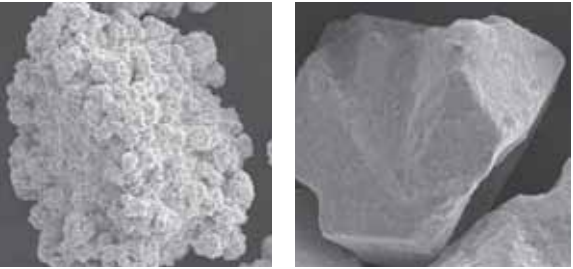
Grade	Property & Application	Image
IBN-200 IBN-300	· Friable & irregular shape · Low grinding power · High efficiency production · Sharp cutting-edge	
IBN-20 IBN-40	· For general purpose · Medium toughness · Long tool life & low power	
IBN-30	· Blocky shape · Stable grinding roughness · For metal bond tool · Heavy grinding condition	
IBN-500 IBN-750 IBN-950	· High self-sharpening · Low grinding power consumption · Sharp cutting-edge · Camshaft grinding	
IBN-3000 IBN-3500 IBN-5000	· Highest toughness · Self sharpening ability · High grinding load on cBN · Heavy grinding condition · Stable thermal toughness	

IBN Series has continual cutting edge suitable for grinding hard ferrous material.
Available Standard Size: 60/80 ~ 400/500. Customized size also available upon request.

Toughness & Shape

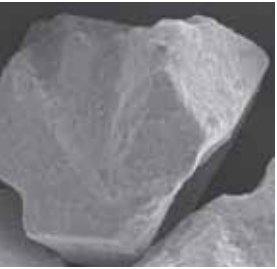


Ni coating



Ni coating : 30, 60wt%
Improves retention force for Resin bond wheels

Ti coating



Ti coating : 5~15wt%
Improves retention force for Metal bond wheels